

# PATENT ABSTRACTS OF JAPAN

(11)Publication number : 11-165200

(43)Date of publication of application : 22.06.1999

(51)Int.Cl.

C02F 11/12

(21)Application number : 09-336119

(71)Applicant : MITSUBISHI RAYON CO LTD  
MITSUBISHI RAYON ENG CO  
LTD  
NITTO CHEM IND CO LTD  
DIAFLOC KK

(22)Date of filing : 05.12.1997

(72)Inventor : TANAKAMARU NAOYA  
FUJII WATARU  
KUWABARA KAZUO

## (54) METHOD FOR TREATING SLUDGE

### (57)Abstract:

**PROBLEM TO BE SOLVED:** To reduce the generation of bad smell or the deterioration of sludge in a sludge storage tank and reduce the amount of the sludge by sufficiently utilizing the functions of a gravity sludge concentration tank.

**SOLUTION:** Sludge generated when organic wastewater is biologically treated is stored in a sludge storage tank 48, and the sludge is supplied from the tank 48 to a membrane separation tank 12 of an immersion type membrane separation device 10 including a separation membrane module 14 to further separate the water contained in the sludge by means of the module 14 to concentrate it, while aeration is effected by an aeration device 30, and the concentrated sludge is returned to the tank 48. Thus the sludge is circulated between the tank 48 and the tank 12 to concentrate the sludge.

